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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/564,947	01/17/2006	Margaret M. Gardner	PU60401	4064	
20462 7590 010662009 SMITHKLINE BEECHAM CORPORATION CORPORATE INTELLECTUAL PROPERTY-US, UW2220 P. O. BOX 1539 KING OF PRUSSIA. PA 19406-0939			EXAM	EXAMINER	
			BARNHART, LC	BARNHART, LORA ELIZABETH	
			ART UNIT	PAPER NUMBER	
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			01/06/2009	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

US\_cipkop@gsk.com

## Application No. Applicant(s) 10/564,947 GARDNER ET AL. Office Action Summary Examiner Art Unit Lora E. Barnhart 1651 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 July 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 14-16 is/are pending in the application. 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 14-16 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Motice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Priormation-Disclosure Statement(s)-(PTO-SECE)

Paper No(s)/Mail Date (PTO-SECE)

Paper No(s)/Mail Date (PTO-SECE)

5] Notice of Informal Patent Ayylication

#### DETAILED ACTION

### Response to Amendments

Applicant's amendments filed 10/1/08 to the claims have been entered. Claims 1-13 have been cancelled. Claims 14-16 have been added. Claims 14-16 remain pending in the current application.

#### Election/Restrictions

Applicant's election without traverse of Group V, now claims 14-16, in the reply filed on 10/1/08 is acknowledged. The requirement for species election is rendered moot by applicant's amendments to the claims. Examination on the merits will commence at this time on claims 14-16.

#### Information Disclosure Statement

The information disclosure statement filed 1/17/06 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. Specifically, applicant has not included copies of the Kondo, Laposata, or Hursting references in this application. The IDS has been placed in the application file, but some of the information referred to therein has not been considered.

## Specification

The abstract of the disclosure is objected to because it is too short and does not describe the invention. Correction in the form of a replacement abstract is required in reply to this Office action. See MPEP § 608.01(b).

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Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients:
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes." etc.

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## Claim Objections

Claim 14 is objected to because of the following informalities: The word "argatroban" should not be capitalized. Furthermore, the word "thrombocytopenia" is misspelled at line 3. Appropriate correction is required.

### Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 14-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 14 is drawn to a method of treating "a patient" but later refers to "those patients whose platelet count ...", which is confusing. There appears to be some selection or decision involved in the method that is not clearly set forth in the claims. Clarification is required.

Claim 14 refers to "baseline" at lines 3 and 4, but the conditions under which this "baseline" value is obtained are not particularly recited in the claims. Clarification is required.

Claim 14 recites the limitation "coumarin derivative," but this limitation does not particularly point out how closely related a compound must be to coumarin (structurally or functionally) to be considered a "derivative." The metes and bounds of the claim are not particularly pointed out. Clarification is required.

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Claim 14 refers to "coumarin derivative therapy," but it is not clear which active steps are involved in this limitation and which are not. It is not clear whether the therapy is a derivative of some other therapy or whether the "derivative" is one of coumarin.

Claim 14 refers to "coumarin derivative in the step in

Because claims 15 and 16 depend from indefinite claim 14 and do not clarify all of these points of confusion, they must also be rejected under 35 U.S.C. 112, second paragraph.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent. Claims 14-16 are rejected under 35 U.S.C. 102(a) as being anticipated by

Warkentin (2002, Current Opinion in Pulmonary Medicine 8: 405-412; reference U).

Warkentin teaches a method for treating heparin-induced thrombocytopenia (HIT) in a patient by providing argatroban to said patient until the patient's platelet count reaches at least above 100x10<sup>9</sup> platelets/liter, then administering warfarin such that the administration of warfarin overlaps with that of argatroban for at least 5 days (Abstract; Table 2 at page 407; and page 407, column 2, paragraph 4).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baglin (2001, *Journal of Clinical Pathology* 54: 272-274; reference V) taken in view of Kondo et al. (2001, *Annals of Pharmacotherapy* 35: 440-451; reference W) and Badorc et al. (1997, U.S. Patent 5.607.952; reference A).

Baglin teaches administering argatroban immediately upon suspicion of HIT in a patient (page 273, column 1, last paragraph; and column 2, last paragraph). Baglin teaches that direct thrombin inhibitors (including argatroban) increase platelet count in patients to which they are administered (ibid.).

Baglin does not teach administering a coumarin derivative, e.g. warfarin, once platelet counts are increased.

Kondo teaches coadministering argatroban and warfarin in HIT patients (page 446).

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Badorc teaches that argatroban and warfarin are anticoagulants (column 3, lines 8-10).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to coadminister warfarin and argatroban to HIT patients because Kondo teaches such a coadministration and because Badorc teaches that argatroban and warfarin are anticoagulants; in this respect, they are functional equivalents. "It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980) (citations omitted). See M.P.E.P. § 2144.06.

The selection of the dosage regimen would have been a routine matter of optimization on the part of the artisan of ordinary skill, said artisan recognizing that Kondo teaches that the selection of amount and timing may be modified (WHERE). A holding of obviousness over the cited claims is therefore clearly required.

### No claims are allowed. No claims are free of the art.

Applicant is requested to specifically point out the support for any amendments made to the disclosure in response to this Office action, including the claims (MPEP 714.02 and 2163.06). In doing so, applicant is requested to refer to pages and line numbers in the as-filed specification, **not** the published application. Due to the procedure outlined in MPEP \$ 2163.06 for interpreting claims, it is noted that other art

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may be applicable under 35 U.S.C. § 102 or 35 U.S.C. § 103(a) once the aforementioned issue(s) is/are addressed.

Applicant is requested to provide a list of all copending U.S. applications that set forth similar subject matter to the present claims and share an inventor or assignee with the instant application. A copy of such copending claims is requested in response to this Office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lora E. Barnhart whose telephone number is 571-272-1928. The examiner can normally be reached on Monday-Thursday, 9:00am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, Michael G. Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lora E Barnhart/ Primary Examiner, Art Unit 1651